



# VENLO GLASS GREENHOUSES







## >>> The RICHEL Group

The RICHEL Group was created in 1964 and has been a family-run business for 3 generations.

For more than 50 years, we have been the French specialists and European leader in the manufacture of plastic-covered greenhouses.

Our know-how has also enabled us to grow in other business areas that have become essential for the Group:

- The manufacture of VENLO glass greenhouses since 2004
- The development of storage solutions through our SHELTERALL® range

Every day, 230 employees help carry out some 500 projects a year, in France and throughout the world. 50 project managers and technical supervisors, based in all 5 continents, support our customers, providing advice on their projects.

As a supplier of turnkey agronomic solutions, we are committed to building lasting relationships with our customers.  
Quality, innovation and meeting deadlines for a long-term partnership.



Our subsidiary, RicHEL Equipment, located in the French city of Angers, has been a specialist in equipment for crop production for over 30 years. We offer our customers comprehensive equipped-greenhouse solutions, meeting their climate control, water and energy management needs.



- >>> Present in 80 countries
- >>> 2 production sites in France
- >>> 10,000 ha built
- >>> 15 sales offices throughout the world



Our production plant, based in the South of France in Eygallières, is a high-tech manufacturing facility with a production capacity of 350 hectares and 25,000 metric tons of steel per year.





# >>> A dedicated Venlo **DEPARTMENT**

Our **systems adapt**  
to suit the needs of **your crops!**



## > OUR EXPERTISE: THE WORK OF SPECIALISTS

- Know-how bolstered by **partnerships with the best Dutch suppliers** of Venlo roofing and equipment.  

- An **integrated Venlo Design Office**: using the Casta® software, each project is sized and designed in-house.
- Compliance with norms: each project in France complies with annex E4 (France) of Standard EN 13031-1. In other countries, our Design office uses Dutch standards (NEN3859), sometimes in addition to local standards.
- A **cutting-edge manufacturing facility** for producing your greenhouse structures.
- A Construction department **dedicated to monitoring the progress of your project.**



# >>> Optim'Air: the new semi-closed greenhouse



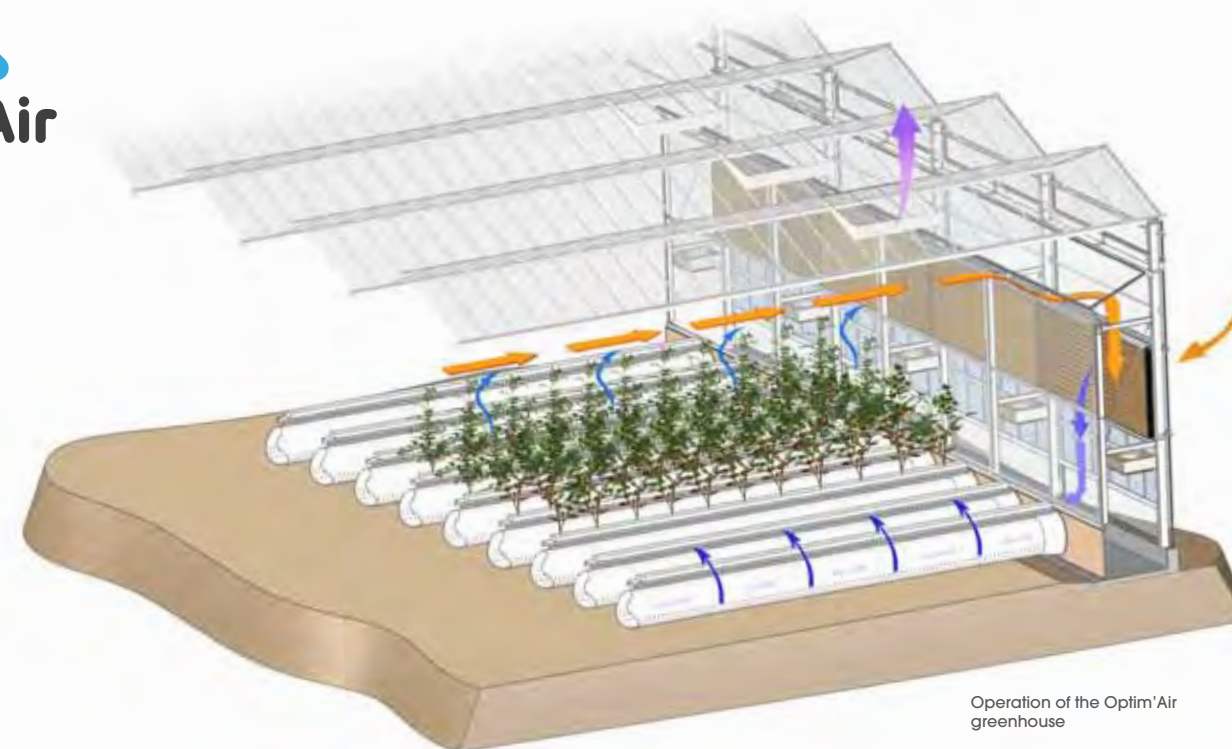
Drip irrigation



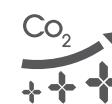
Corridor



Duct



Operation of the Optim'Air greenhouse



OPTIMISE  
YOUR  
PRODUCTIVITY



OPTIMISE YOUR  
INTEGRATED PEST  
MANAGEMENT



OPTIMISE  
YOUR  
CLIMATE

## A TAILOR-MADE APPROACH

Optim'Air optimises:

- Your **investment**.
- Your climate conditions.
- **Integrated pest** management.
- The **concentration of CO<sub>2</sub>**.

Thanks to our customised designs, we guarantee flexibility, adaptability and upgradeability for your projects.

## OUR CONCEPT

- Richel Venlo sizes your system to **reduce your energy consumption**.
- The single ducts used to diffuse the air evenly **generate energy savings of 15%**.
- Stainless steel insect-proof netting guarantees **better durability**.
- Openings specifically designed for our Optim'Air concept.







## >>> An AGRONOMIC APPROACH

### > To optimise your heating systems

Our engineers prioritise **CO<sub>2</sub>** capacity, energy savings and efficiency for your systems.

### > For customised and environmentally-friendly nutrition

Consistency and control of the intake of nutrients are key to effective nutrition.

- We **design your ferti-irrigation systems** in-house.
- Our approach takes the environment into account **by storing and recycling water: rainwater collection and UV treatment.**
- Equipped with **insect-proof nets**, our greenhouses offer protection against pests, therefore reducing the need for pesticides.
- **The CO<sub>2</sub> input** is a major criterion when sizing our heating systems.

### > To increase light transmission

We guide you in choosing **diffuse glass** based on your needs, your budget and the latest innovations.

### > For your photovoltaic greenhouses

Photovoltaic greenhouse projects comply with specifications that require:

- **Improved light transmission** for roofs.
- **Optimisation of the electrical generation potential.**
- **Compliance** with standards.

Richel Environment offers its **expertise in crops requirements.**







## >>> TURNKEY PROJECTS

### FROM GREENHOUSES TO CLIMATE SYSTEMS

Equipped with our own unique and integrated centre of expertise, we are involved in every stage of your project, from design to completion. Specialising in greenhouses, growing and climate systems thanks to our subsidiary, Richel Equipment, we ensure that your project runs smoothly.

### ASSEMBLY AND SAFETY

A member of AXEMA, the union of agricultural equipment manufacturers, we are working on greenhouses designed as per trade practices: design and insurance, in addition to layout and assembly standards in line with labour, operating and maintenance regulations.





